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L1	1	"60433394"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/02/17 09:07
L2	2074	(341/50,51,52,53,54,61,6364,95). CCLS.	USPAT	OR	OFF	2006/02/17 09:09
L3	711	(359/634,583).CCLS.	USPAT	OR	OFF	2006/02/17 09:08
L4	883	(353/31,34).CCLS.	USPAT	OR	OFF	2006/02/17 09:08
L5	226	(341/50).CCLS.	US-PGPUB	OR	OFF	2006/02/17 09:09
L6	1	I5 and energy pulse band	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/02/17 09:11
L7	0	I5 and energy pulse band	USPAT	WITH	ON	2006/02/17 09:12
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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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Polevin, S.D.; Efremov, A.M.; Zherlitsyn, A.A.; Kitsanov, S.A.; Klimov, A.I.; Kor Kovalchuk, B.M.; Kurkan, I.K.; Kutenkov, O.P.; Loginov, S.V.; Pegel, I.V.;
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1 [Circuits for low power wireless: Architectures for low power ultra-wideband radio](#)


[receivers in the 3.1-5GHz band for data rates < 10Mbps](#)

Marian Verhelst, Wim Vereecken, Michiel Steyaert, Wim Dehaene

 August 2004 **Proceedings of the 2004 international symposium on Low power electronics and design**

Publisher: ACM Press

 Full text available: [pdf\(219.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper compares different receiver architectures for UWB radio communication in the 3.1-5GHz band, targeting data rates up to 10Mbps, in terms of their BER performance and power consumption. A receiver, in which some correlations are carried out in the analog domain seems to outperform a fully digital receiver, commonly suggested for baseband UWB. This paper proves that for equal processing gain requirements the partially analog receiver consumes 7 times less power per received bit than the ...

Keywords: architectures, receiver, ultra-wideband

2 [System architectures for computer music](#)



John W. Gordon

 June 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(4.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computer music is a relatively new field. While a large proportion of the public is aware of computer music in one form or another, there seems to be a need for a better understanding of its capabilities and limitations in terms of synthesis, performance, and recording hardware. This article addresses that need by surveying and discussing the architecture of existing computer music systems. System requirements vary according to what the system will be used for. Common uses for co ...

3 [Biological aspects of mobile communication fields](#)



James C. Lin

 November 1997 **Wireless Networks**, Volume 3 Issue 6

Publisher: Kluwer Academic Publishers

 Full text available: [pdf\(332.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Our knowledge on the biological effects of RF radiation has been increasing for many decades. It has become a focus of attention because of the accelerated use of RF radiation for wireless communication over the past few years. It is fairly well established that at sufficiently high power levels, RF and microwave energy can produce deleterious biological effects. Wireless communication systems use low power modulated forms of RF and microwave radiation that was not investigated extensively ...

4 ASK digital demodulation scheme for noise immune infrared data communication

Hiroshi Uno, Keiji Kumatani, Hiroyuki Okuhata, Isao Shirakawa, Toru Chiba

May 1997 **Wireless Networks**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(429.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


A high performance architecture is proposed for the ASK (Amplitude Shift Keying) digital demodulation, which is dedicated to the noise immune wireless infrared data communication. In this architecture, an infrared subcarrier detected by a photodetector is digitized into TTL interface level pulses, and the digitized subcarrier is demodulated by a 1-bit digital demodulator. To improve the noise immunity against fluorescent lamps, the optical noises from the lamps are analyzed and the behavior ...

5 A Correlation Echo Sounder Processor used to provide reliable bottom depth data for profiling

J. Russell Hogan

January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Publisher: ACM Press

Full text available:  [pdf\(304.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Correlation Echo Sounder Processor (CESP) is a comparison type echo sounder which utilizes replica-correlation signal processing to provide reliable bottom and near bottom depth data for profiling. It is designed to operate with most oceanographic recorders, transceivers and power amplifiers. Conventional depth sounders usually utilize a short duration pulse of a single frequency to obtain maximum depth resolution. The short pulse system requires a tremendous amount of energy ...

6 Embedded technologies: Millimeter wave up-converted UWB based positioning system

Michael Bocquet, Christophe Loyez, Aziz Benlarbi-Delaï

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**

Publisher: ACM Press

Full text available:  [pdf\(136.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Ad hoc network connectivity and efficient energy communication require the use of optimized routing algorithms. Input data of such algorithms are the spatial coordinates of each mobile station (MS). These coordinates could be given by GPS based system or by alternative ways involving modern technology able to ensure both communication and location. An original solution, based on a like Ultra Wide Band (UWB) technology, uses millimeter multitone dual transmission acting like a pulse composite sign ...

7 Embedded technologies: Wireless sensor network node with asynchronous architecture and vibration harvesting micro power generator

Yasser Ammar, Aurélien Buhrig, Marcin Marzencki, Benoît Charlot, Skandar Basrour, Karine Matou, Marc Renaudin

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and**

technologies sOc-EUSAI '05**Publisher:** ACM PressFull text available:  [pdf\(340.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents recent advances in the development of a microsystem designed to be part of a wireless sensor network. This microsystem is developed with two particular technologies: asynchronous circuits and ambient energy harvesting power generator. Asynchronous technologies offer several advantages allowing a global decrease in the power consumption of the node. In addition, the presence of an ambient energy scavenger allows the system to power itself, thus reducing maintenance and increas ...

8 Wireless beyond the third generation wireless beyond the third generation: facing the energy challenge




Jan M. Rabaey

August 2001 **Proceedings of the 2001 international symposium on Low power electronics and design****Publisher:** ACM PressFull text available:  [pdf\(276.65 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** communications, energy, wireless

9 Signal processing in SETI



D. K. Cullers, Ivan R. Linscott, Bernard M. Oliver

November 1985 **Communications of the ACM**, Volume 28 Issue 11**Publisher:** ACM PressFull text available:  [pdf\(3.96 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Search for Extraterrestrial Intelligence (SETI), now being planned at NASA, will require a prodigious amount of highly concurrent signal processing to be done in real time by special-purpose hardware.

10 Energy efficient mobile computing: Energy-efficient communication protocols



Carla F. Chiasserini, Pavan Nuggehalli, Vikram Srinivasan

June 2002 **Proceedings of the 39th conference on Design automation****Publisher:** ACM PressFull text available:  [pdf\(307.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless networking has experienced a great deal of popularity, and significant advances have been made in wireless technology. However, energy efficiency of radio communication systems is still a critical issue due to the limited battery capacity of portable devices. In this paper, we deal with the charge recovery effect that takes place in electrochemical cells and show how we can take advantage of this mechanism to increase the energy delivered by a battery. Then, we present energy-aware traf ...

Keywords: battery charge recovery, energy efficiency, wireless networks

11 Sensor networks: A scalable approach for reliable downstream data delivery in wireless sensor networks



Seung-Jong Park, Ramanuja Vedantham, Raghupathy Sivakumar, Ian F. Akyildiz

May 2004 **Proceedings of the 5th ACM international symposium on Mobile ad hoc networking and computing****Publisher:** ACM Press

Full text available:  [pdf\(679.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There exist several applications of sensor networks where reliability of data delivery can be critical. While the redundancy inherent in a sensor network might increase the degree of reliability, it by no means can provide any guaranteed reliability semantics. In this paper, we consider the problem of reliable sink-to-sensors data delivery. We first identify several fundamental challenges that need to be addressed, and are unique to a wireless sensor network environment. We then propose a scalable ...

Keywords: energy conservation, reliable transport protocols, sink-to-sensors reliability, wireless sensor networks


12 [Intelligent signal analysis and recognition using a self-organizing database](#)



R. Levinson, D. Helman, E. Oswalt

June 1988 **Proceedings of the 1st international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2 IEA/AIE '88**

Publisher: ACM Press

Full text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)


13 [Energy estimation tools for the Palm](#)



Todd L. Cignetti, Kirill Komarov, Carla Schlatter Ellis

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Reducing the energy consumed in the use of mobile and wireless devices is becoming a major design challenge. While the problem obviously must be addressed with improved low-level technology, we have advocated also considering a higher-level view in which energy management becomes an explicit design goal of the software developer who can be more aware of the needs of applications. In support of this objective, new programming models, measurement tools, and simulation environments must ...

14 [Fuzzy logic based noise reduction of digitally recorded speech signal](#)



Nevcihan Duru, Tarik Duru, Nurettin Abut

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Publisher: ACM Press

Full text available:  [pdf\(407.89 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: filter, fuzzy logic, noise reduction, speech enhancement


15 [Location \(here\): WALRUS: wireless acoustic location with room-level resolution using ultrasound](#)



Gaetano Borriello, Alan Liu, Tony Offer, Christopher Palistrant, Richard Sharp

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  [pdf\(295.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose a system that uses the wireless networking and microphone interfaces of mobile devices to determine location to room-level accuracy. The wireless network provides a synchronizing pulse along with information about the room. This is accompanied by an ultrasound beacon that allows us to resolve locations to the confines of a physical room (since audio is mostly bounded by walls). We generate the wireless data and ultrasound pulses from the existing PCs in each room; a PDA ...

16 Dynamic voltage scaling on a low-power microprocessor



Johan Pouwelse, Koen Langendoen, Henk Sips

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: [pdf\(351.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Power consumption is the limiting factor for the functionality of future wearable devices. Since interactive applications like wireless information access generate bursts of activities, it is important to match the performance of the wearable device accordingly. This paper describes a system with a microprocessor whose speed can be varied (frequency scaling) as well as its supply voltage. Voltage scaling is important for reducing power consumption to very low values when operating at low speed ...

17 Voice response systems



D L. Lee, F H. Lochovsky

December 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.22 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Level set and PDE methods for computer graphics



David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

19 Spot noise texture synthesis for data visualization



Jarke J. van Wijk

July 1991 **ACM SIGGRAPH Computer Graphics , Proceedings of the 18th annual conference on Computer graphics and interactive techniques SIGGRAPH '91**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: [pdf\(8.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The use of stochastic texture for the visualization of scalar and vector fields over surfaces is discussed. Current techniques for texture synthesis are not suitable, because they do not provide local control, and are not suited for the design of textures. A new technique, *spot noise*, is presented that does provide these features. Spot noise is synthesized by

addition of randomly weighted and positioned spots. Local control of the texture is realized by variation of the spot. The spot is ...

Keywords: flow visualization, fractals, particle systems, scientific visualization, texture synthesis

20 Energy efficient Modulation and MAC for Asymmetric RF Microsensor Systems



Andrew Wang, SeongHwan Cho, Charles Sodini, Anantha Chandrakasan

August 2001 **Proceedings of the 2001 international symposium on Low power electronics and design**

Publisher: ACM Press

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